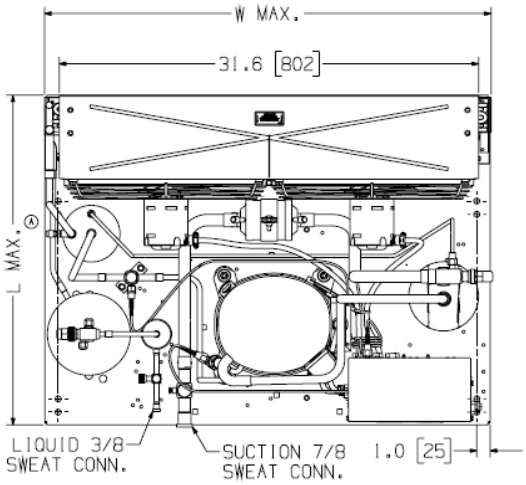
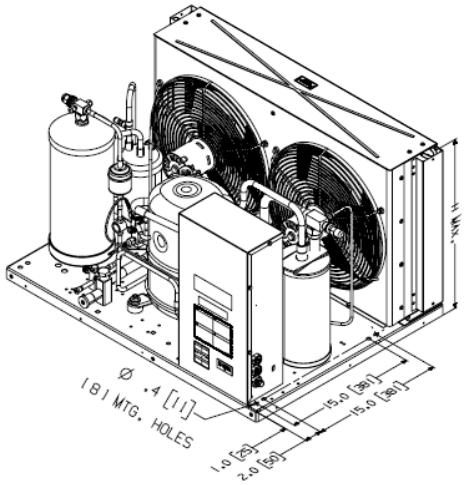
March 16, 2011

Tecumseh Compressor Company
Indoor Condensing Units

Model: AWA2490ZXDXF **BoM: 2C2154-1** **R-404A** **2.25 HP** **AIRCOOLED**





Model	Dimensions, inches				Line Connection*		Pumpdown	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AWA2490ZXDXF	25.0	33.5	19.5	14.7	7/8” S	3/8” S	16.46 lbs	1850	38.5	200
* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting										

		Ambient Temperatures											
Evaporator T		80°F			90°F			100°F			110°F		
°F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
-30	10.7	5090	1533	88	4098	1492	97	3565	1468	107	---	---	---
-25	14.0	6269	1676	89	5212	1650	98	4420	1622	108	3571	1558	117
-20	17.1	7499	1821	90	6365	1807	99	5344	1778	109	4348	1723	118
-15	19.3	8780	1966	92	7558	1963	101	6336	1936	111	5199	1891	120
-10	24.5	10113	2111	93	8790	2118	103	7396	2097	112	6123	2061	121
-5	28.8	11496	2257	95	10061	2271	104	8525	2261	113	7120	2234	123
0	33.5	12931	2403	97	11372	2423	106	9721	2427	115	8190	2409	124
5	36.5	14417	2549	99	12722	2573	108	10986	2595	117	9334	2587	126
10	43.7	15954	2697	101	14112	2722	110	12319	2767	119	10552	2767	127

60 Hz Performance

Return gas temp. 40°F. 5°F sub-cooling

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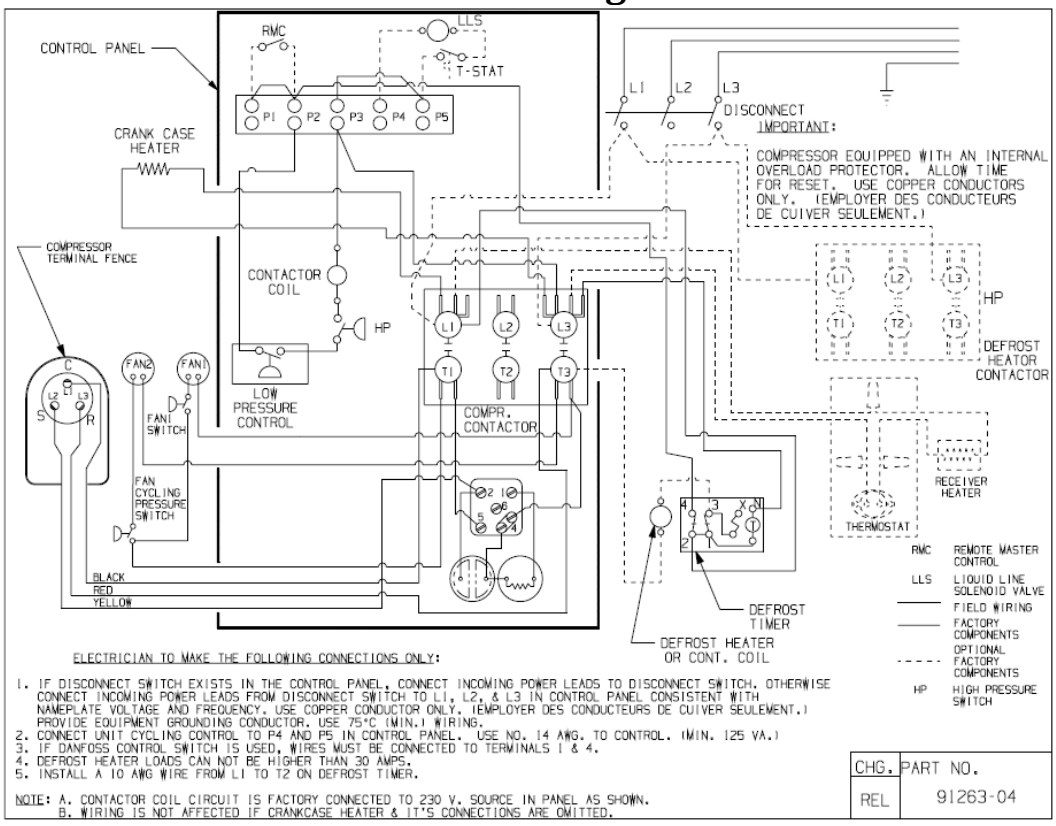
Specifications/ Parts:

Model	AWA2490ZXDXF
Unit Bill of Material	2C2154-1
Nominal Volts-Hz-Ph	208-230-60-1
Refrigeration Range	-40° to 10°F
Design Pressure Low	181
Design Pressure High	450
Voltage Range	187 to 254
Min. Circuit Ampacity	17.3
Max. Fuse Size (amps)	30
Compressor Model	AWA2460ZXD
Comp. Bill of Material	AW613ET-099-P2
Compressor RLA/LRA	12.6 / 86.0
Overload	INTERNAL
Relay	820ARR3J56
Run Capacitor	85PR440F18
Run Capacitor Rating	35MFD 440V(M)VDE
Start Capacitor	85PS330C84
Start Capacitor Rating	196-236 MFD 330V VDE
Contactor	91014
Unit Drawing	DGU1918-59
Wiring Diagram	91263-04

Fan Motor	810F050C20 (2)
Fan Motor RLA	0.7 Each
Fan Blade	51568-1 (2)
Fan Guard	70831 (2)
Fan Shroud	70648-2
High Pressure Switch	84095-2
Low Pressure Control	84026-2
Oil Separator *	704-00002
Condenser	50855-1
Fan Switch	84096-1
Fan Switch	84096-2
Receiver Tank	51082-1
Liquid Valve	31592
Liquid Filter *	70081
Sight Glass *	70084
Suction Valve *	31529-1
Rotolock Valve Gasket	30233
Discharge Valve	56596
Suction Filter *	70082
Accumulator *	TK00042000
Crankcase Heater	91022-1
Defrost Timer *	84110
Suction Shut Off Valve*	56500-K14
Liquid Shut Off Valve*	56500-K06
Shrader Valve Body*	56510
Valve Core*	56552
* = Equipped Units Only	

Electrical Diagram


CONTROL PANEL
RMC
LLS
T-STAT
P1 P2 P3 P4 P5
CRANK CASE HEATER
COMPRESSOR TERMINAL FENCE
CONTACTOR COIL
HP
LOW PRESSURE CONTROL
FAN1 SWITCH
FAN CYCLING PRESSURE SWITCH
BLACK
RED
YELLOW
L1 L2 L3
DISCONNECT
IMPORTANT:
COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET. USE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.)
COMPR. CONTACTOR
DEFROST HEATOR CONTACTOR
RECEIVER HEATER
THERMOSTAT
DEFROST TIMER
DEFROST HEATER OR CONT. COIL
RMC REMOTE MASTER CONTROL
LLS LIQUID LINE SOLENOID VALVE
FIELD WIRING
FACTORY COMPONENTS
OPTIONAL FACTORY COMPONENTS
HP HIGH PRESSURE SWITCH
ELECTRICIAN TO MAKE THE FOLLOWING CONNECTIONS ONLY:
1. IF DISCONNECT SWITCH EXISTS IN THE CONTROL PANEL, CONNECT INCOMING POWER LEADS TO DISCONNECT SWITCH. OTHERWISE CONNECT INCOMING POWER LEADS FROM DISCONNECT SWITCH TO L1, L2, & L3 IN CONTROL PANEL CONSISTENT WITH NAMEPLATE VOLTAGE AND FREQUENCY. USE COPPER CONDUCTOR ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING.
2. CONNECT UNIT CYCLING CONTROL TO P4 AND P5 IN CONTROL PANEL. USE NO. 14 AWG. TO CONTROL. (MIN. 125 VA.)
3. IF DANFOSS CONTROL SWITCH IS USED, WIRES MUST BE CONNECTED TO TERMINALS 1 & 4.
4. DEFROST HEATER LOADS CAN NOT BE HIGHER THAN 30 AMPS.
5. INSTALL A 10 AWG WIRE FROM L1 TO T2 ON DEFROST TIMER.
NOTE: A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V. SOURCE IN PANEL AS SHOWN.
B. WIRING IS NOT AFFECTED IF CRANKCASE HEATER & IT'S CONNECTIONS ARE OMITTED.
CHG. PART NO.
REL 91263-04